LM·instruments

feel the difference

English

LM-Instruments Oy 4

Top class instrument technology
Colourful ergonomics
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We reserve the right to make any changes.

LM-Instruments develops, manufactures and markets dental products, which make working easy and effective. Our innovative products are uniquely ergonomic and are used all over the world. The LM functioning whole comprises a wide range of top-class products for various clinical procedures.

feel the c

ments Oy

We are the leading manufacturer of hand instruments in the Nordic countries, and the fastest growing such in all of Europe. Our products are available in almost every corner of the world.

The future is our challenge. This is why it is vital to our enterprise to engage in a continuous dialogue with our users, up-to-date research and product development. We have made a serious investment in materials technology research. The result? Better products with exceptional properties.

A strong foundation of expertise and state-of-the-art technologies results in truly unique products, on which professionals can rely. We operate under the ISO 9001 Quality Management System.

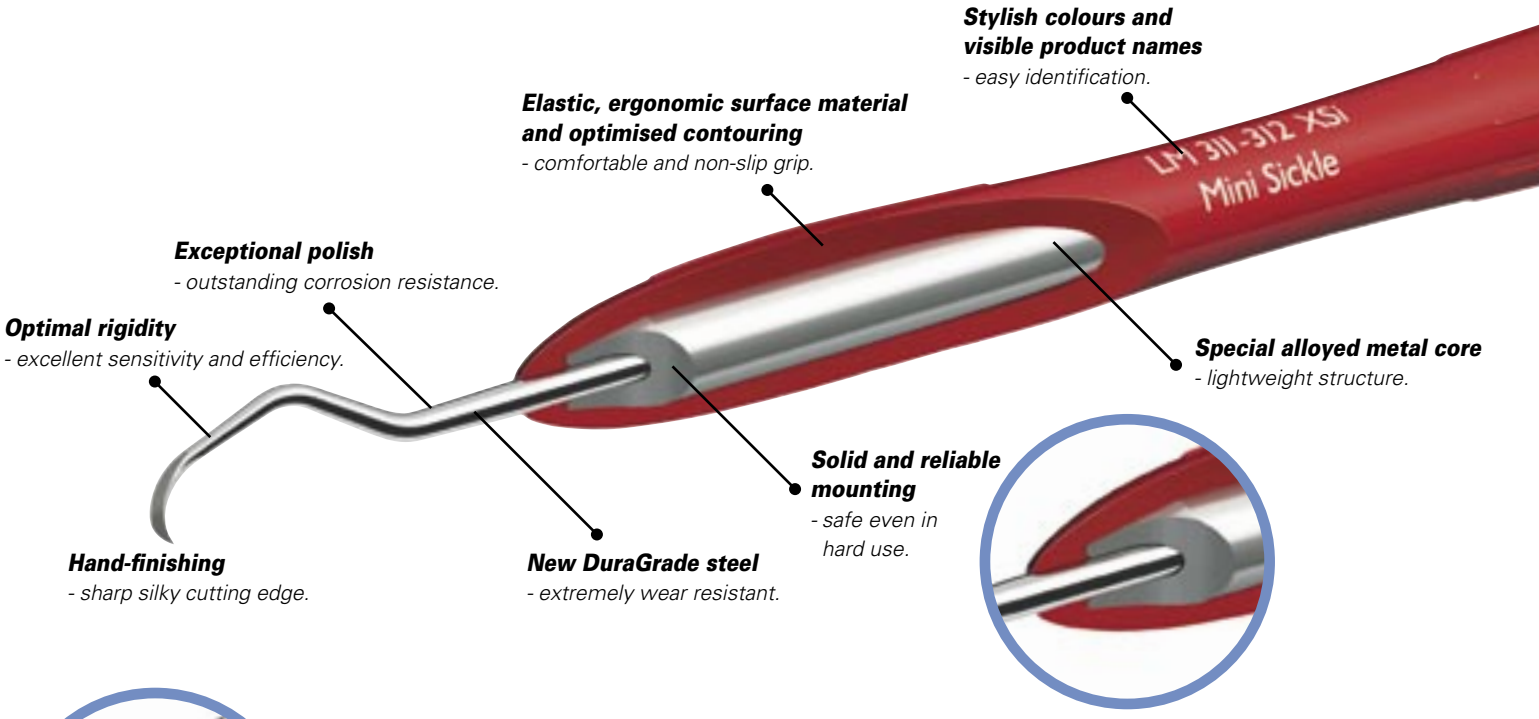
Incomparable Finnish quality and efficiency. We rely on both state-of the-art automation and traditional hand craftsmanship.

difference

LM-Instruments Oy is a part of the Planmeca Group, which is one of the world's leading manufacturers of dental equipment.
www.planmeca.com

LM-Instruments has a subsidiary Amdent Ab in Nynäshamn, Sweden. Amdent developes and manufactures ultrasonic scaling equipments.
www.amdent.com

Top class instrument technology



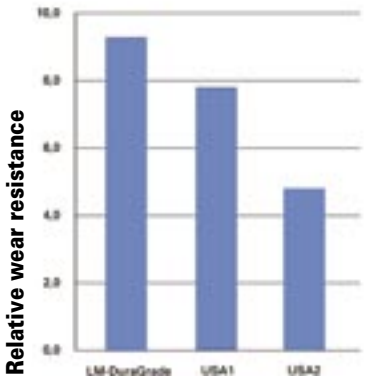
LM-DuraGrade supersteel now in all LM hand instruments

One of the most significant properties of a hand instrument is the high wear resistance of the blade metal. Wear resistance is particularly important in periodontal and preparation instruments, which are sharpened on a regular basis. Sharpening is a time consuming and demanding procedure. The use of highly wear resistant instruments results in considerable savings. Furthermore, working with sharp instruments is both satisfying and effective.

There have always been great differences between instrument manufacturers in the degree of wear resistance. LM has long invested in materials technology research, which has resulted in **LM-DuraGrade**, a new steel that represents the state-of-the-art in metallurgy and is used in all LM instruments.

According to independent wear research and clinical testing, the wear resistance of LM curettes is significantly better than that of the reference instruments studied.

LM curette wear research has been published in a scientific article in the January 2001 issue of dental periodical The Finnish Dental Journal. The article was also separately published in English: Dr. Tech. Aino Helle, Research of the wear resistance of curettes. The Finnish Dental Journal 2001; 1-2,+ VIII; 8-14.



The most important wear test results of the LM-made Gracey Curettes and the two different American-made Gracey Curettes. Samples USA1 and USA2 used in the tests were tips of new, commercially available Gracey Curettes. The bars represent the average wear resistance of the samples examined in this study.

A thin, hard handle strains the hand and can lead to strain injuries.

Colourful ergonomics

An ergonomically designed, lightweight, and correctly shaped instrument will not strain muscles or tissue. Procedures are performed efficiently with even the lightest grip. Wrist and hand movements are transmitted easily and precisely to the working end of the instrument.

Instrument identification is also an aspect of advanced occupational ergonomics. Distinct, stylish colours serve as an aid in both clinical applications and instrument maintenance.

Excellent sensitivity and efficient instrument control

Non-slip, light and natural grip

The latest research can be felt in the ergonomic form: handle thickness, shape, elasticity, centred tips and instrument lightness.

LM-Instruments is a pioneer in instrument ergonomics. The life-long work of renowned and highly respected university teacher and clinician, Dr. Pekka Kangasniemi is closely related to the development of instruments and other LM products.

Handle selection

LM instruments are available with either ErgoNorm or ErgoMax handles. The thinner LM-ErgoNorm handle functions best in light clinical procedures. The hand fit plays a role in selecting a handle type. By interchanging ErgoNorm and ErgoMax handle types, the user's hand is placed under even less strain.

ErgoNorm

ErgoMax

ErgoSingle

new!

A new single-ended handle available in the autumn 2005. Especially good as a mirror handle

- well-balanced
- optimised hand fit
- better reachability

The instrument name and code number are imprinted on the handle. Other printed codes are e.g. the lines which denote either blade size, angle curvature or measuring scale.

When ordering remember to mention the code for handle type:

Si = ErgoNorm handle
(Ø 8.5 mm)

XSi = ErgoMax handle
(Ø 11.5 mm)

ESi = ErgoSingle
(Ø 11.5 mm)

Diagnostics

- **Mirror handles**
- **Explorers**
- **Periodontal probes**

Mirror handles

New mirror handle available in the autumn 2005.

Mirror handle threads are in accordance with international standard M 2.5 - the mirror shank must have a diameter of 2.5 - 2.6 mm

Mirror Handle
LM 25
Colour selection: red, grey, blue

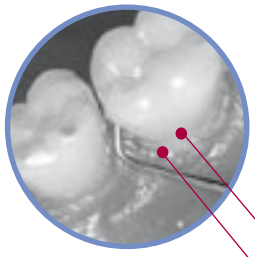
Mirror Handle
LM 28 XSi
Available only with LM-ErgoMax Xsi handle.
Cone Socket design
- UNF4-48, with special threads
Colour selection: red, grey, blue

Mirror Handle, ortho
LM 25-26 XSi
Available only with LM-ErgoMax Xsi handle.
- for measuring the sagittal overjet and vertical overbite
- millimeter scale, total length 25 mm

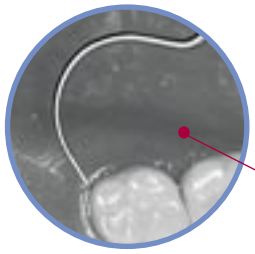
Most explorers and periodontal probes are available also in single-ended designs.

Explorers

For diagnosing calculus and caries and exploring of pockets, restorations and furcations.



Eloncated lower shank and "back-action" blade. Especially for probing distal surfaces of posterior teeth. 17C head with centred tip.



Especially for probing distal surfaces.

Explorer
LM 5-8

Explorer
LM 5-9

Explorer, centered
LM 9-17C

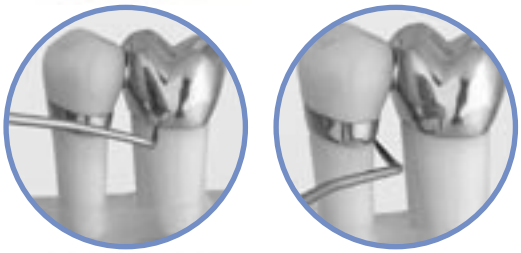
Explorer
LM 17-23

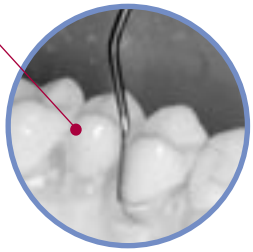
Explorer, centered
LM 17C-23

Explorer
LM 3-6

Explorer
LM 11-12
- angles similar to Gra 11/12

Explorer, prosthetic
LM 18-19
- prosthetic crowns, bridges and inlay-/onlay fillings
- high sensitivity at seams





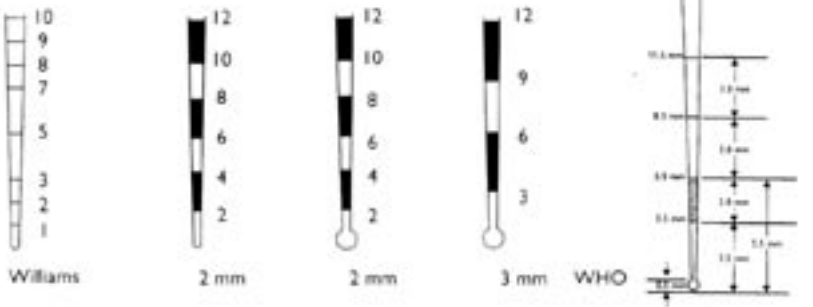
For subgingival root examination.

Explorer, Holst
LM 29
- lateral angle on the shank

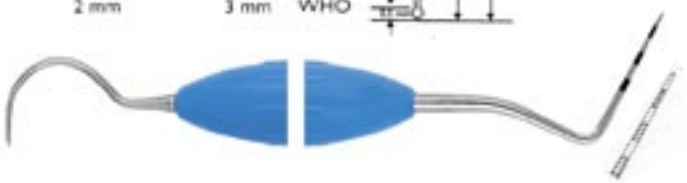
Explorer
LM 9

Explorers – Periodontal Probes

Combination instruments for probing caries and parodontium.



Explorer
- Periodontal Probe
LM 23-52B



Explorer
- Periodontal Probe
LM 8-520B
ball ø 0,5 mm

Most explorers and periodontal probes are available also in single-ended designs.

Explorers
– Periodontal Probes
Furcation Probes

Explorer
- Periodontal Probe
LM 23-520B
ball ø 0,5 mm

Explorer
- Periodontal Probe
LM 23-530B
ball ø 0,5 mm

Williams Probe
LM 51

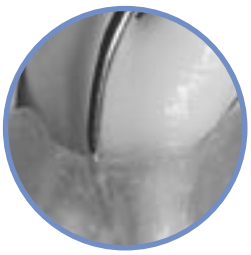
Explorer - WHO Probe
LM 8-550B
ball ø 0,5 mm

Explorer - WHO Probe
LM 23-550B
ball ø 0,5 mm

WHO Probe
LM 550B
ball ø 0,5 mm

Furcation Probes

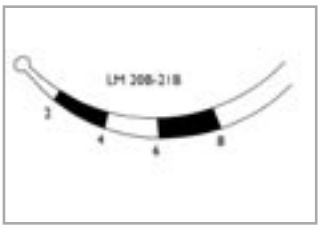
For probing the extent and depth of furcation lesions.

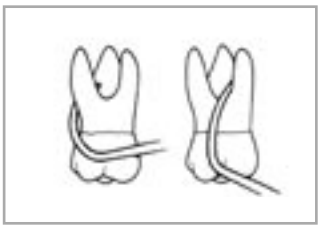


For probing furcation lesions from different angles, both in the upper and in the lower jaw region.

Nabers Probe
LM 20-21

Furcation Probe
LM 20B-21B





- examination of furcation lesions from different angles in both the upper and lower jaws

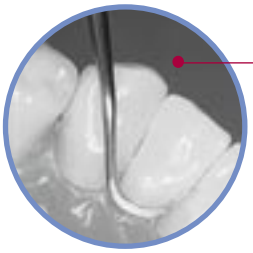
Periodontics

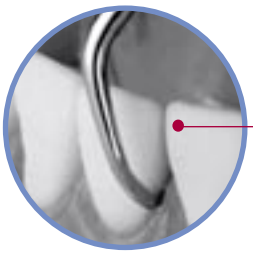
- Scalers
- Universal curettes
- Gracey curettes
- Special instruments

Sickle Scalers

For the removal of supragingival calculus.

Design:
Triangular cross section
Face perpendicular to the lower shank
Two cutting edges (red line)
Pointed tip





Micro Sickle LM204SD
LM 301-302
- delicate working end
- for tight interdental spaces

Sickle LM204S
LM 303-304
- sharply angulated shank and very fine working end
- excellent pair for the Micro Sickle

Mini Sickle
LM 311-312
- for all tooth surfaces, especially proximal surfaces

Sickle LM23
LM 313-314
- shorter blade and longer lower shank than in the Mini Sickle

Sickle LM204S

Micro Sickle

Mini Sickle

Sickle LM23

Crane-Kaplan
LM 322-323
- extremely strong, rigid, sharply angled blade
- for removal of heavy supragingival calculus

Mini Kaplan
LM 333-334
- same angle but with a more delicate blade than in the Crane-Kaplan

McCall 11A-12A
LM 324-325

Hygienist Scalers

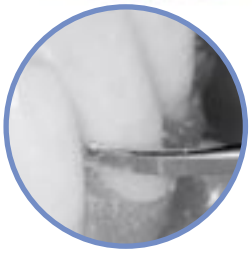
Sickle Scaler
LM 141

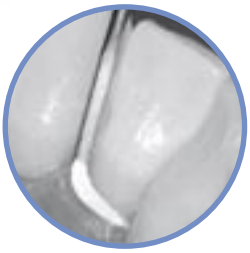
Scaler U15 Towner
LM 150

Push Scaler H4-H5
LM 144-145

- 90° working surface

- the chisel-like working end used by pushing
- the Jacquette working end used by pulling





Scaler H6-H7
LM 146-147

Universal Curettes

For the removal of supra- and subgingival calculus.

Design:
Working end perpendicular to the lower shank
Two cutting edges (red line)
Rounded tip

McCall 13S-14S
LM 222-223

Strong blade with rigid shank. Mainly for incisors and premolars.

Mini McCall 13S-14S
LM 222-223M

Standard Mini

- mini model: sharper, slightly rounded tip (not sickle-shaped), especially for deep pockets

Periodontics

Universal curettes

Curette LM 15-16
LM 225-226

McCall 17-18
LM 277-278

McCall 17S-18S
LM 279-280

17-18
- strong, uniform-width working end
- for all tooth surfaces
- especially for broad molar surfaces

17S-18S
- more delicate blade, working end narrower than in 17-18
- excellent in tight interdental spaces

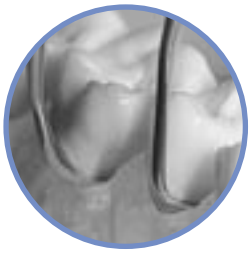
17-18 17S-18S

Combines universal curette head with Gracey curette's shank angulation – can be used for all tooth surfaces.

Langer 1/2
LM 281-282
- for premolars and molars in the lower jaw

Langer 3/4
LM 283-284
- for premolars and molars in the upper jaw

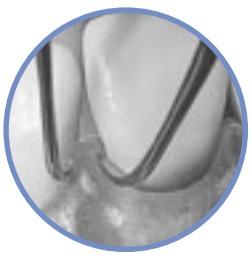
Langer 5/6
LM 285-286
- for incisors in the upper and lower jaw



Mini Langer 1/2
LM 281-282M
- for premolars and molars in the lower jaw

Mini Langer 3/4
LM 283-284M
- for premolars and molars in the upper jaw

Mini Langer 5/6
LM 285-286M
- for incisors in the upper and lower jaw



Mini Langers have longer shanks and shorter working ends than standard Langers.

Goldman-Fox 3
LM 233-234

Goldman-Fox 4
LM 235-236

Columbia 2L-2R
LM 217-218

Columbia 4L-4R
LM 219-220

Columbia 13-14
LM 237-238

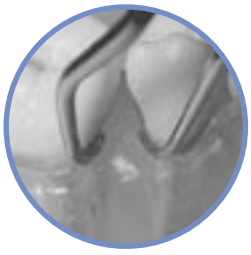
Special Instruments
LM-Syntette

A combination of universal and finishing curette.
For the removal of supra- and subgingival calculus.

Design:
Two elliptical cutting edges
Rounded toe

LM-Syntette
LM 215-216

LM-Syntette, mini
LM 215-216M

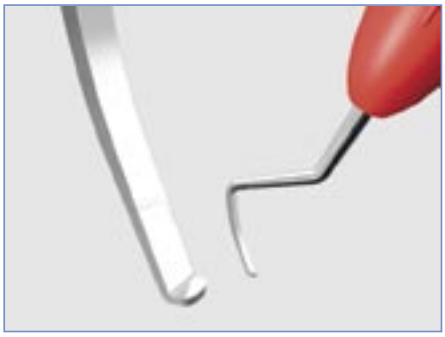


- for both concave and convex surfaces
- distal and mesial surfaces of the same interdental space can be treated with the same instrument head
- suitable for both vertical and horizontal techniques
- mini model excellent in tight, deep pockets

Hoe Scalers

For the removal of supra- and subgingival calculus.
Suitable for deep, narrow pockets and concave root surfaces.
For both vertical and horizontal techniques.

Design:
Fine hoe-shaped blade with rounded corners
Elliptical cutting edge



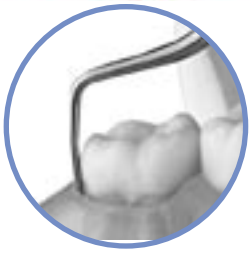
Hoe Scaler, anterior
LM 112-113

Hoe Scaler, lateral
LM 134-135

Hoe Scaler, posterior
LM 156-157

anterior

lateral



posterior

Interproximal Curettes

Interproximal Curette
SV 1-3
LM 251-253
- for quadrants 1 and 3

Interproximal Curette
SV 2-4
LM 252-254
- for quadrants 2 and 4

- bevelled working surface, one cutting edge
- one end for treatment of the mesial surface and the other for treatment of the distal surface of the same interdental space
- for use with horizontal technique, from the buccal side

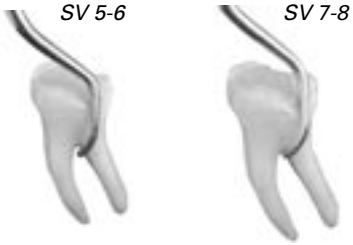
Furcation Files

Concavity Diamond
File SV 5-6
LM 255-256D

- delicate, diamond-coated round curved toe
- for cleaning and forming deep, concave root surfaces
- for acute furcation lesions

Furcation Diamond
File SV 7-8
LM 257-258D

- delicate, diamond-coated egg-shaped toe
- for cleaning deep furcation lesions



Furcator

Furcator KS
LM 259-260 XSi

Available only with LM-ErgoMax Xsi handle.

For cleaning of the furcation roof and inner surfaces, particularly concavations and grooves in them.

LM-DuraGrade supersteel

One of the most significant properties of a hand instrument is the high wear resistance of the blade metal. Wear resistance is particularly important in periodontal and preparation instruments, which are sharpened on a regular basis. Sharpening is a time consuming and demanding procedure. The use of highly wear resistant instruments results in considerable savings. Furthermore, working with sharp instruments is both satisfying and effective. There have always been great differences between instrument manufacturers in the degree of wear resistance. LM has long invested in materials technology research, which has resulted in LM-DuraGrade, a new steel that represents the state-of-the-art in metallurgy and is used in all LM instruments.

Gracey Finishing Curettes

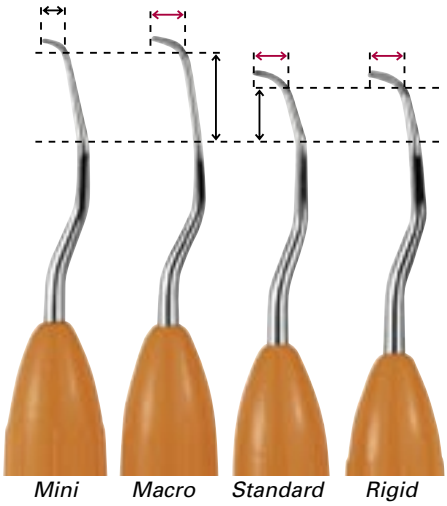
Area specific curettes for the removal of deep subgingival calculus.
For the finishing of subgingival root surfaces.

Design:
Working surface inclined 20° to the lower shank
One curved cutting edge (red line)
Rounded cutting tip

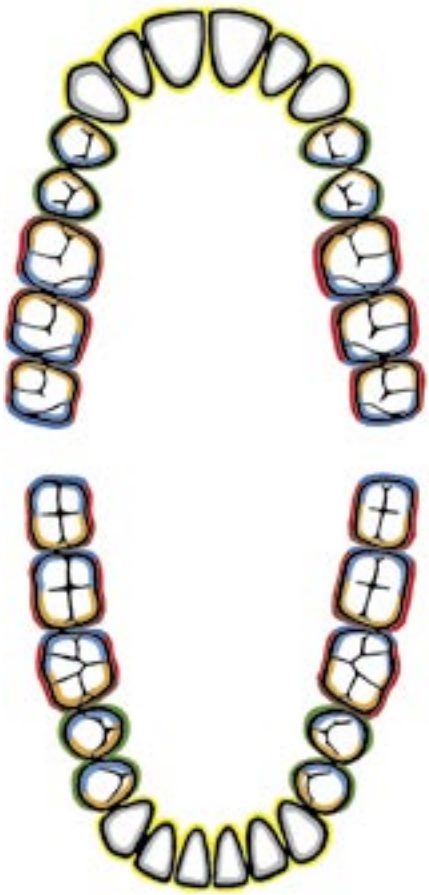
Mini Gracey
- longer lower shank and smaller working end than in the standard model

Macro Gracey
- standard model's long working end combined with mini model's longer lower shank

Rigid Gracey
- blade shank thicker and more rigid, and working end slightly wider than in the standard model



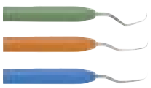
Gracey Chart



Incisors

GRA 1/2
GRA 5/6

Premolars

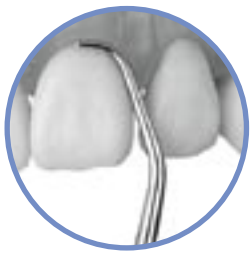


GRA 7/8
GRA 11/12
GRA 13/14

Molars

GRA 9/10
GRA 11/12
GRA 13/14
GRA 15/16
GRA 17/18

Gracey 1/2
LM 201-202
- incisors, premolars



Gra 1/2

Gracey 3/4
LM 203-204
- incisors, premolars

Gracey P3-P4
LM 266-267
- short shank makes the instrument more rigid

Gracey 5/6
LM 205-206
- incisors, premolars

Gra 3/4

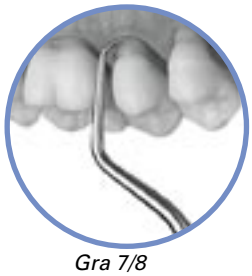
Gracey 7/8
LM 207-208
- premolars, molars

Gracey 9/10
LM 209-210
- molars

Gra 5/6

Gracey 11/12
LM 211-212
- molars´ mesial surfaces

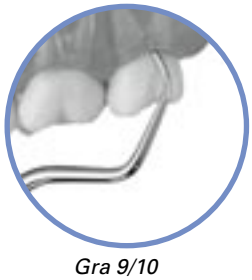
Gracey 13/14
LM 213-214
- molars´ distal surfaces



Gra 7/8

Gracey 15/16
LM 245-246
- molars´ mesial surfaces

Gracey 17/18
LM 247-248
- molars´ distal surfaces



Gra 9/10

When the blade shank is sharply angulated, the position of the handle while working is more horizontal, thereby facilitating procedures when the patient´s oral aperture is small.

Gra 11/12 *Gra 15/16*

Gra 13/14 *Gra 17/18*

Macro Gracey Curettes

Macro Gracey 5/6
LM 205-206AF

Macro Gracey 7/8
LM 207-208AF

Macro Gracey 11/12
LM 211-212AF

Macro Gracey 13/14
LM 213-214AF

Mesial-Distal Macro Gracey Curettes

See also page 23

Macro Gracey 11/14
LM 211-214AF

Macro Gracey 12/13
LM 212-213AF

Mini Gracey Curettes

Mini Gracey 1/2
LM 201-202M

Mini Gracey 7/8
LM 207-208M

Mini Gracey 11/12
LM 211-212M

Mini Gracey 13/14
LM 213-214M

Mini Gracey 15/16
LM 245-246M

Mini Gracey 17/18
LM 247-248M

Rigid Gracy Curettes

Blade shank thicker and more rigid, and working end slightly wider than in the standard model

Ridig *Standard*

Following Gracey curettes are also available in rigid:
Gracey 1/2
Gracey 7/8
Gracey 11/12
Gracey 13/14
Gracey 15/16
(Code: LM 201-202R Si / XSi etc.)

Mesial-Distal Gracey Curettes

For the treatment of one quadrant at a time.

All the mesial-distal models are also available as mini models.

Gracey 11/14 and Gracey 12/13 available also in macro.
See page 22.

Gracey 11/14
LM 211-214

Gracey 12/13
LM 212-213

Gracey 15/18
LM 245-248

Gracey 16/17
LM 246-247

Don’t compare, combine!

Instead of comparing ultrasonics and manual instrumentation they should be used in concert. A blended approach incorporating both methods best serves the periodontal patient. Take advantage of the best features of both methods and make your choice by evaluating the attachment topography and root surface textures. For ultrasonic instrumentation choose the ergonomic and efficient LM-PowerHand ultrasonic device. Piezo power system, silicone coated handpiece and a wide variety of tips ensure comfortable and efficient treatment.
See page 58.

Keep instruments in cassettes

The use of LM-Servo instrument cassettes simplifies and expedites the service cycle and protects instruments, thus extending their service life. Instruments kept in cassettes will stay in order, will be cleaned thoroughly, and are safe to handle throughout the service cycle. During treatment the cassette serves as an instrument tray. Instruments are easy at hand at all times and the handling of individual instruments is minimized.
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Gentle and effective disinfection

LM-ProColor is an aldehyde-free hand instrument disinfectant, which combines a wide effective spectrum, high cleaning power and a gentle composition that protects various materials. LM-ProColor kills bacterial growth effectively, while maintaining the original instruments properties. Careful service cycles and the use of LM-ProColor guarantee a proper hygiene level in your dental practice.
See page 54.

Sharpening made easy

The regular inspection and sharpening of periodontal instruments ensure their optimal performance. With LM-RondoPlus you can sharpen your instruments easily and fast with e minimal metal wear. The ingenious sharpening method preserves the original form of the blade and you automatically get the correct blade angle. Sharpening makes sense. It enhances the ergonomics of your work and saves you money.
See page 56.

Restoration

- Excavators
- Gingival margin trimmers
- Spatula
- Cord packers
- Carriers
- Pluggers
- Burnishers
- Modelling instruments
- Composite instruments
- Carvers
- Excess removers
- Filling remover
- Crown Off / On instruments
- LM-Cello stripholder

Spoon Excavators

For the removal of softened carious dentin and temporary fillings.

Design:
Spoon-shaped working end
Rounded tip
Long cutting edge, which can easily treat broader areas

Spoon Excavator, 1.0 mm
LM 522-523

Spoon Excavator, 1.5 mm
LM 533-534

Round Excavators

Cariology
- for the removal of softened, carious dentin
- for the removal of temporary fillings

Surgery
- to sever the periodontal ligament prior to extraction
- for the removal of granulation tissue after extraction

Design:
Round working end
Curved cutting edge

Round Excavator, 1.0 mm
LM 61-62

Round Excavator, 1.5 mm
LM 63-64

Round Excavator, 2.0 mm
LM 65-66

Triple-angled Back Action Excavators

Cariology
- extremely effective in removing carious dentin
- for undermining enamel during tissue-saving preparations

Periodontics
- for the removal of calculus from hard to reach areas such as the lower anterior lingual surfaces
- for the depuration of concave root grooves and furcations

Surgery
- for the removal of granulation tissue in connection with apical resections, flap operations, or extractions

Design:
Round working end and curved cutting edge
Shank angulations ease treatments on hard to reach buccal, distal, and lingual surfaces
The blade shank is triple-angled, allowing for "back action" functions

Triple-angled Back Action Excavator, 1.0 mm
LM 611-621

Triple-angled Back Action Excavator, 1.5 mm
LM 631-641

Triple-angled Back Action Excavator, 2.0 mm
LM 651-661

Triple-angled Back Action Excavator, 3.5 mm
LM 671-681

Gingival Margin Trimmers

For the horizontal finishing of outer cavity margins.

Gingival Margin Trimmer, 1.2 mm, distal LM 121-122

Gingival Margin Trimmer, 1.2 mm, mesial LM 125-126

Spatula

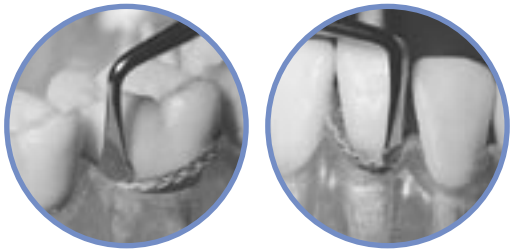
Spatula LM 450-460

Cord Packers

Cord Packer, 2.0 mm LM 490-491

Cord Packer, 2.6 mm LM 492-493

- the cleverly bent blade enables getting around the tooth as well as the packing of the cord using vertical motions



Base Carriers

For carrying base or thin liner to dentin surfaces.

Base Carrier, rigid
LM 29H-30H

Base Carrier
- Condenser, malleable tip
LM 30-34

- 30-tip can be bent into the desired form, allowing for easier access to hard to reach areas

Base Carrier
- Condenser, rigid
LM 30H-34

Carrier - Plugger

Carrier - Plugger,
1.8-1.5 mm
LM 700-702

Pluggers

Micro Packer 0.8 mm
LM 330-331

Plugger, cylindrical,
0.8-1.2 mm
LM 330-350

Plugger, cylindrical,
1.0-1.5 mm
LM 340-360

Plugger, cylindrical,
1.2-2.0 mm
LM 350-380

Restoration

Pluggers
Burnishers
For composites

Plugger, cylindrical,
1.8-2.5 mm
LM 370-390

Triple-angled Back Action
Plugger, 1.2-2.0 mm
LM 351-381

Markley 2
LM 354-355

Burnishers

Burnisher
LM 31-32

Burnisher - Plugger,
ball-ended, 1.5-2.5 mm
LM 471-473

Burnisher 27-29
LM 476-477

Burnisher 21
LM 372-373

new!

For composites
New instruments for esthetic restorative dentistry

Available only with LM-ErgoMax Xsi handle.

Versatile instruments for cavity preparation, combining a trimmer and an excavator. Two different sizes for both mesial and distal instruments. The smaller is suitable for micro preparation and the larger one can be used for any other cavities.

Trimmex Mesial 1 1.0 mm
LM 6122-61222 XSi

Trimmex Mesial 2 1.5 mm
LM 6322-6422 XSi

Trimmex Distal 1 1.0 mm
LM 6121-6221 XSi

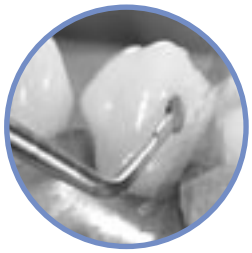
Trimmex Distal 2 1.5 mm
LM 6321-6421 XSi

CMF Shaper
LM 44-45 XSi

A tomahawk shaped instrument combining features of a carrier, modeller and a finisher.

Carrier

Modeller



Finisher

- composite can be easily positioned into mesial and distal cavities, since the handle and the blade are in 45 -degree angle
- instrument works as an excess remover after light polymerization in all tooth surfaces, especially in class II restorations in interproximal surfaces

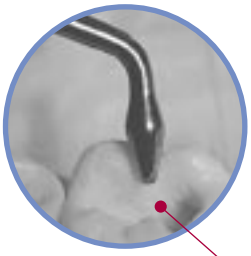
Modeller – BrushHolder
LM 481-758 XSi

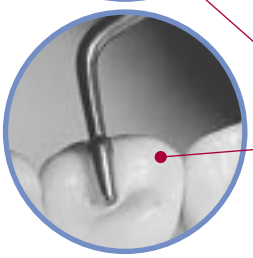
A classical modeller PK Thomas 3 combined with
a brush holder to hold and carry disposable micro brush application tips.

PK Thomas 3
- long, conical tip
- can be used for both, adapting composite to any cavity margin and modelling cusps and fissures in order to obtain a natural and functional occlusal surface

The BrushHolder
- reliable and secure alternative to holders realized in plastic
- the colour-coded application tips are used for applying liquid treatment agents to all dental surfaces or cavities

See page 52 for more information on the Brush Application Tips





For composites

Modelling Instrument
LM 478-479

Packer-Modeller IO
LM 482-483

- conical working ends, which are exceptionally well-suited e.g. to shaping of occlusal surfaces and to packing of all kinds of plastics
- composites do not stick to the highly polished blades

Packer-Modeller IO p
LM 482-702

- combination instrument for premolars

Packer-Modeller IO m
LM 483-703

- combination instrument for molars

Plastic Instrument, anterior
LM 43-47

Plastic Instrument, posterior
LM 48-702

Composite Spatula 6
LM 446-447

Form Condenser,
1.5-2.5 mm
LM 702-703

Mini Spatula
LM 444-445

Carvers

1/2 Hollenback
LM 741-751

Nyström I
LM 74-75

Nyström III
LM 76-77

Maehlum
LM 71-73

Universal Carver,
occlusal-proximal
LM 71-72

Cleoid-Discoid
LM 731-732

Excess Removers

Shovel-shaped blades cutting in three directions.
- for removal of soft and hardened filling excesses and for smoothing of filling surfaces
- applicable with pushing, planing motions

Excess Remover, anterior
LM 781-791

Excess Remover, universal
LM 782-792

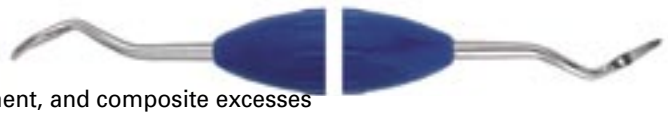
Excess Remover, posterior
LM 783-793

Excess removers are excellent mucous membrane periost elevators.

Restoration

Filling Remover
Crown On and Crown Off

Excess Scaler
LM 785-795



- for the removal of adhesive, cement, and composite excesses
- when razor-sharp, a very effective excess remover in proximal spaces

Mini Excess Scaler
LM 784-794

- an effective excess remover in extremely tight interdental spaces

Filling Remover

For the removal of temporary fillings and crowns.
For bridge removal during fitting.

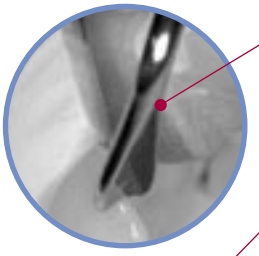
Filling Remover
LM 764-766

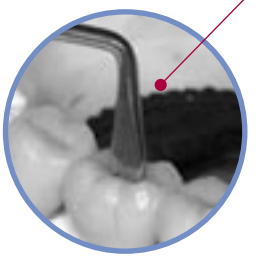
- one blade probe-shaped, the other wedge-shaped

Crown On and Crown Off

Available only with LM-ErgoMax Xsi handle.

new!





Crown On I
(single-ended)
LM 761 XSi

Crown On II
LM 762-763 Xsi

Blade double angled with a 45 degrees twist
- specially designed for placing crowns and inlays
- the flattened working end has a hollow in the middle to stabilize the instrument firmly on to the occlusal surface while pressing down the crown

Crown Off
LM 767-768 Xsi

Blade double angled with a 45 degrees twist
- specially designed for removing crowns, bridges and temporary laminates
- can be used for all types of levering and removing in the mouth

A groove is first burred from the lower edge of the crown up to the occlusal surface. The groove should be so deep that it reaches the cement. The Crown Off working end is placed longitudinally into the groove and turned as if spreading the groove. The blade is turned until the crown loosens and lifts up. The blade stays firmly in the groove and it is easy to control even when lot of force is used.

LM-Cello Stripholder
LM 2010 C

Use the LM code rings to mark pre-fitted strips for mesial (orange) or distal (blue) surfaces

PATENTED

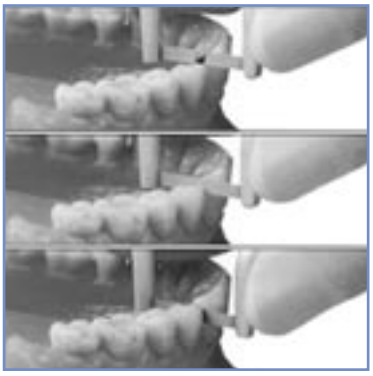
SOLUTION FOR MANY CLINICAL PROBLEMS

Prophylactics
- the removal of calculus from contact areas
- preparation for flossing and toothpick use
- when finishing proximal surfaces, the strip can serve as a toothpaste applicator

Restoration
- the finishing of proximal and contact surfaces
- preparation for both rubber dam and matrix techniques

Aesthetic and Prosthetic Care
- the finishing of cement seams on laminates, cast fillings, and crowns

Orthodontics
- enamel stripping



Strip Selection

package 50 pcs
disposable, coarseness 60µ

Strips with blanks	Strips without blanks
LM 5502 one-sided 2 mm	LM 5512 one-sided 2mm
LM 5503 one-sided 3 mm	LM 5513 one-sided 3mm
LM 5503D double-sided 3 mm	LM 5513D double-sided 3mm

- the smooth part of the strip is used when the contact is exceptionally tight

SAFE AND EFFECTIVE!

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See page 54.

Endodontics

- Endodontic files
- Explorers
- Excavators
- Pluggers
- Surgery

new!

LM-EndoMax

Endodontic files and reamers with maximized ergonomics

LM's endodontic hand files with large handles are supreme in ergonomics.
Soft and thick silicone handle improves the grip and makes filing and rotating more comfortable.
LM-EndoMax files and reamers adhere to the contour of the canal, cleaning all surfaces evenly and effectively.

- improved tactile sensitivity
- greater working comfort
- improved torque and force transmission
- visible identification stamples
- colour-coding according to ISO specifications

LM-Endomax Reamers

LM-Reamers have loosely twisted and flexible triangular cross-section instrument blades. The instrument is primarily designed for the apical preparation of straight canals, which is why the blade can also be used for cutting. For this instrument, a rotating preparation motion is the most effective.

LM-EndoMax K-Files

LM's K-Files have an extremely flexible triangular profile blade. The larger cutting angle enhances instrument use compared to a similar square profile instrument. Preparation waste can also be removed from the canal more easily, because there is more room in the instrument threads. The threads are tightly spaced and the tip is sharp, making the instrument ideally suited to the preparation of straight canals using filing and rotating motions. A short, back-and-forth preparation motion is most effective for the instrument.

LM-EndoMax Hedstroems

The blade on LM-Hedstroem files is milled instead of threaded like on other root canal instruments. Especially well suited to procedures where space is made for the root canal orifice (coronal flare). Hedstroem files are only intended for use with filing, back-and-forth preparation motions.

LM-EndoMax NiTi Files

The material used for NiTi files differs from that used for K-files, whereas the file form is the same on both. NiTi (Nickel-Titanium) is an elastic material, which will return to its original shape after bending or deformation. The instrument tip is not used for cutting, which makes LM NiTi instruments ideal for the preparation of curved canals. Both a filing and rotating preparation motion are suitable for these instruments.

ø ISO	008	010	015	020	025	030	035	040	045	050	055	060	070	080
Assortment 015-040			1	1	1	1	1	1						
Assortment 045-080									1	1	1	1	1	1
Individual packages	6	6	6	6	6	6	6	6	6	6	6	6	6	6

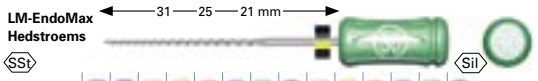
ø ISO	006	008	010	015	020	025	030	035	040	045	050	055	060	070	080
Assortment 015-040				1	1	1	1	1	1						
Assortment 045-080										1	1	1	1	1	1
Individual packages	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6

LM-EndoMax Reamers

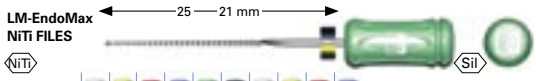
Length	21 mm	25 mm	31 mm
	Code	Code	Code
Size	LM	LM	LM
008	300821	300825	300831
010	301021	301025	301031
015	301521	301525	301531
020	302021	302025	302031
025	302521	302525	302531
030	303021	303025	303031
035	303521	303525	303531
040	304021	304025	304031
045	304521	304525	304531
050	305021	305025	305031
055	305521	305525	305531
060	306021	306025	306031
070	307021	307025	307031
080	308021	308025	308031
015 - 040	3015-04021	3015-04025	3015-04031
045 - 080	3045-08021	3045-08025	3045-08031

LM-EndoMax K-Files

Length	21 mm	25 mm	31 mm
	Code	Code	Code
Size	LM	LM	LM
006	200621	200625	200631
008	200821	200825	200831
010	201021	201025	201031
015	201521	201525	201531
020	202021	202025	202031
025	202521	202525	202531
030	203021	203025	203031
035	203521	203525	203531
040	204021	204025	204031
045	204521	204525	204531
050	205021	205025	205031
055	205521	205525	205531
060	206021	206025	206031
070	207021	207025	207031
080	208021	208025	208031
015 - 040	2015-04021	2015-04025	2015-04031
045 - 080	2045-08021	2045-08025	2045-08031



ø ISO	008	010	015	020	025	030	035	040	045	050	055	060	070	080
Assortment 015-040			1	1	1	1	1	1						
Assortment 045-080									1	1	1	1	1	1
Individual packages	6	6	6	6	6	6	6	6	6	6	6	6	6	6



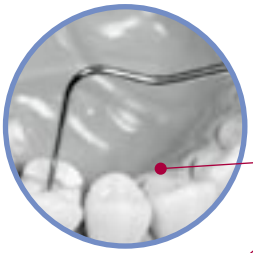
ø ISO	015	020	025	030	035	040	045	050	055	060
Assortment 015-040	1	1	1	1	1	1				
Individual packages	6	6	6	6	6	6	6	6	6	6

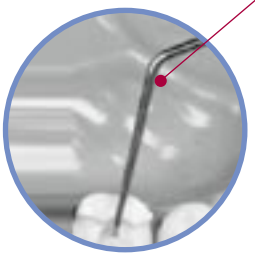
LM-EndoMax Hedstroems

Length	21 mm	25 mm	31 mm
	Code	Code	Code
Size	LM	LM	LM
008	400821	400825	400831
010	401021	401025	401031
015	401521	401525	401531
020	402021	402025	402031
025	402521	402525	402531
030	403021	403025	403031
035	403521	403525	403531
040	404021	404025	404031
045	404521	404525	404531
050	405021	405025	405031
055	405521	405525	405531
060	406021	406025	406031
070	407021	407025	407031
080	408021	408025	408031
015 - 040	4015-04021	4015-04025	4015-04031
045 - 080	4045-08021	4045-08025	4045-08031

LM-EndoMax NiTi Files

Length	21 mm	25 mm
	Code	Code
Size	LM	LM
015	501521	501525
020	502021	502025
025	502521	502525
030	503021	503025
035	503521	503525
040	504021	504025
045	504521	504525
050	505021	505025
055	505521	505525
060	506021	506025
015-040	5015-04021	5015-04025





Important! Only use the instruments for the purpose which they are intended!

Endodontics

Explorers
Excavators
Pluggers

Root canal excavators have longer lower shanks and sharper blade angles than round excavators.

Root Canal Explorer

Root Canal Explorer
LM 27-28

- the instrument's long, sharp tips facilitate the location and opening of root canals to provide access for proper preparation instruments.

Root Canal Excavators

Root Canal Excavator,
1.0 mm
LM 612-622

Root Canal Excavator,
1.5 mm
LM 632-642

Root Canal Excavator,
2.0 mm
LM 652-662

- extended and correctly angled shanks as well as highly effective blade angles allow for the preparation of all types of pulp cavities
- effective for the cleaning of pulp chambers and location of root canals as well as the removal of temporary fillings

Endo Plugger

Endo Plugger,
0.5-1.0 mm
LM 41-42

- tips 0.5 and 1.0 mm
- for the vertical plugging of root canal fillings

Gentle and effective disinfection

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See page 54.

Endodontic Surgery

For retrograde cavities

For the removal of demineralized dentin, guttapercha and cement from the tip of the root.
Good visibility.

Apexcavator GFV 0.8 mm
LM 683-684
- mesial, distal and lingual surfaces

Apexcavator GFV 1.0 mm
LM 613-614
- mesial, distal and lingual surfaces

Apexcavator GFV
0.8 – 1.0 mm
LM 685-616
- buccal surfaces

For retrograde filling

Apex Packer
GFV 0.4 - 0.6 mm
LM 410-420

Apex Packer
GFV 0.8 – 1.0 mm
LM 430-440

Don’t compare, combine!

Instead of comparing ultrasonics and manual instrumentation they should be used in concert. A blended approach incorporating both methods best serves the periodontal patient. Take advantage of the best features of both methods and make your choice by evaluating the attachment topography and root surface textures. For ultrasonic instrumentation choose the ergonomic and efficient LM-PowerHand ultrasonic device. Piezo power system, silicone coated handpiece and a wide variety of tips ensure comfortable and efficient treatment.
See page 58.

www.lminstruments.com

Visit LM-Instruments’ informative homepage. Articles with interesting clinical pictures and user tips are at your disposal. You may also download colorful brochures, catalogues and manuals from our internet site. We wish you welcome to find out more about innovative LM products!

LM-DuraGrade supersteel

One of the most significant properties of a hand instrument is the high wear resistance of the blade metal. Wear resistance is particularly important in periodontal and preparation instruments, which are sharpened on a regular basis. Sharpening is a time consuming and demanding procedure. The use of highly wear resistant instruments results in considerable savings. Furthermore, working with sharp instruments is both satisfying and effective. There have always been great differences between instrument manufacturers in the degree of wear resistance. LM has long invested in materials technology research, which has resulted in LM-DuraGrade, a new steel that represents the state-of-the-art in metallurgy and is used in all LM instruments.

Orthodontics

- Ortho mirror handle
- Ligature applicators
- Arch Wire Tucker

Orthodontics

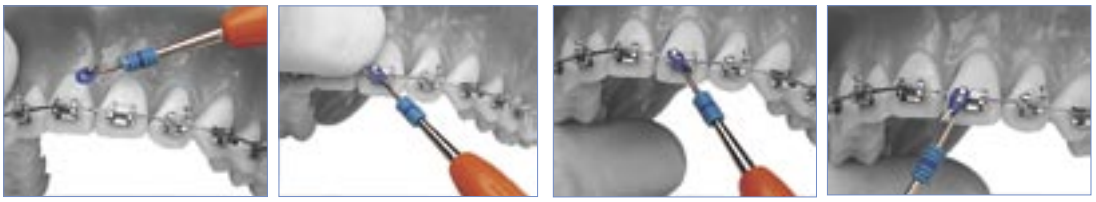
Mirror Handle, ortho
LM 25-26 XSi

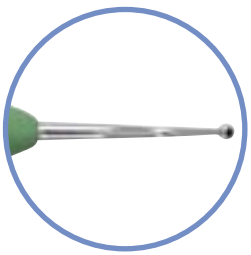
Available only with LM-ErgoMax XSi handle.
- for measuring the sagittal overjet and vertical overbite
- millimeter scale, total length 25 mm

Ligature Tucker
LM 414-415

Ligature Tucker
- Scaler U15
LM 414-150

Plastic Ligature Applicator
LM 416-417





new!

Arch Wire Tucker
LM 412-413 XSi

Available only with LM-ErgoMax Xsi handle.

Bending the end of an arch wire can be problematic. Working space is limited and the wire rigid. Double-ended LM-Arch Wire Tucker facilitates the bending. The flattened ball-ends have 1 millimeter holes, where the wire can easily be placed and turned. The blade is long and fits well even in tight places.

- **Instrument sets**
- **Special products**
- **Rational instrument maintenance**
- **Ultrasonic scaler**

Instrument sets

LM-PerioSet 1
LM 6652 Si / XSi

LM-Servo 5
Mini Sickle
Curette McCall 17-18
Gracey 1/2
Gracey 11/12
Gracey 13/14

LM-PerioSet 2
LM 6682 Si / XSi

LM-Servo 8
Mini Sickle
Curette McCall 17-18
Gracey 1/2
Gracey 9/10
Gracey 11/12
Gracey 13/14
Mini Gracey 15/16
Mini Gracey 17/18

LM-DiagnoSet
LM 6651 Si /XSi

LM-Servo 5
Mirror Handle & mirror
Explorer LM 5-8
WHO Probe LM 550B
Round Excavator 1.5 mm
Tweezers

LM-CompoSet
LM 6657 Si / XSi

LM-Servo 5
Mini Spatula
Plastic instrument, ant.
Form Condenser
Packer-Modeller IO
Mini Excess Scaler

Keep instruments in cassettes

The use of LM-Servo instrument cassettes simplifies and expedites the service cycle and protects instruments, thus extending their service life. Instruments kept in cassettes will stay in order, will be cleaned thoroughly, and are safe to handle throughout the service cycle. During treatment the cassette serves as an instrument tray. Instruments are easy at hand at all times and the handling of individual instruments is minimized.

LM-IntroKit
LM 6600

Are you setting up a new dental practice or updating your instruments? The LM-IntroKit is an affordable introduction package, consisting of five basic instrument sets. The IntroKit contains two diagnostic sets, one endodontic set, one preparation set and one periodontic set.

Diagnostic Set
LM-Servo 5
Mirror handle and mirror
Tweezers
Explorer – WHO Probe 8-550B
Mini-Sickle

Preparation Set
LM-Servo 8
2 x Mirror handle and Mirror
Tweezers
Explorer 5-8
Round Excavator, 1.5 mm
Plastic instrument, posterior
Carver Nyström III
Burnisher 31-32

Endodontic Set
LM-Servo 8
Tweezers
2 x Mirror handle and Mirror
Explorer 5-8
Round Excavator, 1.5 mm
Carver Nyström III

Periodontic Set
LM-Servo 8
Mirror handle and mirror
Tweezers
Explorer 5-8
Mini-Sickle
Gracey 1/2
Gracey 7/8
Gracey 11/12
Gracey 13/14

Instruments in the LM-IntroKit are always with LM-ErgoMax handles.

Ingenious LM-MultiHolder System

Two MultiHolder instruments and different kinds of replaceable plastic working ends – a real multi-function instrument!

LM-MultiHolder PK I
LM 750-756

LM-MultiHolder PK II
LM 752-754

- angle options allow for easy access to even the more complex areas
- optimal combination of steel and plastic – the steel shank is rigid and only the working end will flex, when required

Working ends for LM-MultiHolder

LM-Implant Scaler

For surpragingival cleaning of implants.
- completely safe for the titanium abutments
- one design does it all - four instrument angle options and 360° turning scaler enable for easy access to all tooth surfaces

LM 7701 Implant Scaler circa 30 pcs / package

LM-Contact Formers

Transparent tip for making correctly formed and tight interproximal contact.
- suitable for use with all matrices
- will not stick to composite fillings

Four sizes corresponding to the size of the cavity, circa 60 pcs / package

LM 7622 XS
LM 7624 S
LM 7626 M
LM 7628 L

LM 7620 Assortment package circa 120 pcs (30 pcs / size)

LM-Gingival Retractors

For establishing optimum working conditions for procedures at the gum line.

Three sizes, circa 60 pcs / package

LM 7502 S for incisors
LM 7504 M for premolars
LM 7506 XL for molars

LM 7500 Assortment package circa 90 pcs (30 pcs / size)

LM-Cervical Matrices

For making anatomically correct fillings at the gum line
- protects from moisture
- prevents air bubbles

Four models for different size and shape,
circa 60 pcs / package

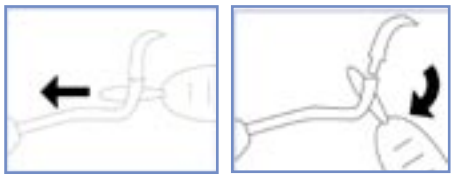
LM 7602 for incisors
LM 7604 for canines and premolars
LM 7606 for small molars
LM 7608 for large molars

LM 7600 Assortment package circa 120 pcs (30 pcs / model)

LM-MultiLever

LM-MultiLever
LM 7550

For the removal of plastic working end we recommend LM-MultiLever.



LM-MultiHolder IntroKit

LM-MultiHolder IntroKit
LM 7555K

The introduction kit contains LM-MultiHolder instruments PK I and PK II (XSi), a MultiLever and samples of all available working ends. There are a total of 48 working ends, 4 for each size of each working end.

You may order LM-MultiHolder IntroKit sample package also separately.
LM 7555

LM-CompoKnife

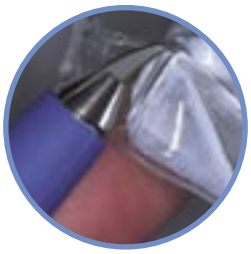
new!

LM-CompoKnife
LM 9006

A multipurpose handle for
the wide-ranging needs of dental care

- precise, strong and sharp handling
- round silicone handle
- good feel in the hand
- the blade can easily be maneuvered on the various surfaces of the tooth
- the blade is deeply set, with the shaft preventing the blade from damaging soft tissue and allowing for the use of great tractive and lateral force when carving out excess material

CompoKnife works well in approximal finishings.



Ideal for finishing of vacuum tray edges used in bleaching treatments.

Outstanding instrument for the removal of thin layer of bonding resin.

LM-ErgoHold 3

LM-ErgoHold 3
LM 9003

A uniquelly ergonomic surgical handle
- excellent grip
- precise blade control
- controlled rotation
- blade position responsiveness maintained
- controlled movement through tissue
- no. 3 fitment
- elastic silicone coating

PAT.PEND.

LM-MultiSeptor

Effective and easy-to-use saliva ejector

LM-MultiSeptor keeps the area being treated dry – both lingual and buccal. It functions equally well on both the upper and lower jaw.

- can easily be formed to the desired shape
- comfortable for the patient
- leaves ample space for procedures
- an invaluable aid when working unassisted.

The MultiSeptor is used in e.g. in restorative and endodontic procedures as well as in orthodontics and crown and bridge work. The MultiSeptor is compatible with all standard suction units.

Care: disinfect, rinse, remove connections clean, and sterilize.
Connections must be cold-sterilized.

LM-MultiSeptor, 40 cm
LM 2020

LM-MultiSeptor, 50 cm
LM 2020A

Spare Parts
Replacement tubes = 5 tubes (40 cm) + spring
LM 2021

Replacement tubes = 5 tubes(50 cm) + spring
LM 2021A

www.lminstruments.com

Visit LM-Instruments' informative homepage. Articles with interesting clinical pictures and user tips are at your disposal. You may also download colorful brochures, catalogues and manuals from our internet site. We wish you welcome to find out more about innovative LM products!

Brush Application Tips

new!

- used for applying liquid treatment agents to all dental surfaces or cavities
- excellent for placing cavity liners, bonding and priming agents and etchants
- by bendig the shank of the application tip the access to into the cavities can be optimised

Application tips are available in three different colours (red, blue, yellow) to ease the identification and to coordinate multi-step procedures.

Brush Application Tips are for one time use only!

Brush Application Tip,
yellow
50 pieces
LM 758Y

Brush Application Tip,
blue
50 pieces
LM 758B

Brush Application Tip,
red
50 pieces
LM 758R

Use Brush Application Tips together with LM-BrushHolder (LM 481-758).
See page 31 for more information on the BrushHolder.

Code Rings

LM 5000 blue
LM 5001 green
LM 5002 orange
LM 5003 red
LM 5004 yellow
LM 5005 black
LM 5006 white
LM 5007 brown
LM 5008 lavender
- package 50 pcs/colour

Rational instrument maintenance

Convenient LM-Servo cassettes

Save time, money and personnel

LM-Servo 5
LM 6650
- for five instruments
- dimensions: 180 x 86 x 28 mm

LM-Servo 8
LM 6680
- for eight instruments
- dimensions: 180 x 136 x 28 mm

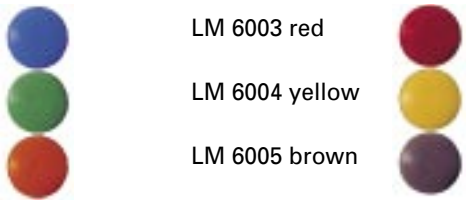
- made of an exceptionally durable special plastic PAT.
- cassettes tolerate all common detergents, washers, and methods
- max. 180°C / 355°F
- standard dimensions – can be kept in all commonly used instrument cabinets, instrument maintenance equipment, and covered trays
- one-piece, light-weight

Code Buttons

On both of the cassette's long sides there are holes for three code buttons

- buttons sold separately
- package 20 pcs/colour

LM 6000 blue
LM 6001 green
LM 6002 orange
LM 6003 red
LM 6004 yellow
LM 6005 brown



Keep instruments in cassettes

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LM-ProColor instrument disinfection

Effective protection
LM-ProColor is a new aldehyde-free disinfectant for hand instruments that combines a wide effective spectrum, high cleaning power and composition that protects various materials. LM-ProColor is also suitable for use in ultrasonic cleaners.

Safe and long-lasting
LM-ProColor is a long-lasting concentrate, whose pleasant aroma and colour enhance user comfort. One two-liter bottle produces 100 liters of cleaning solution.

Composition: 100 g LM-ProColor contains: 9 g alkyl-benzyl-dimethylammonium chloride, 0.1 g guanidine compound, non-ionic surfactants, alkaline detergents, corrosion inhibitors, adjuvants in aqueous solution.

Effective spectrum: bactericidal inclusive of TB bacteria, fungicidal, virucidal (enveloped viruses, HBV[1)], HCV[2)], HIV[3)]).

1) by electron microscopy
2) Test for BVDV surrogate virus
3) Effectiveness against HBV implies effectiveness against HIV.

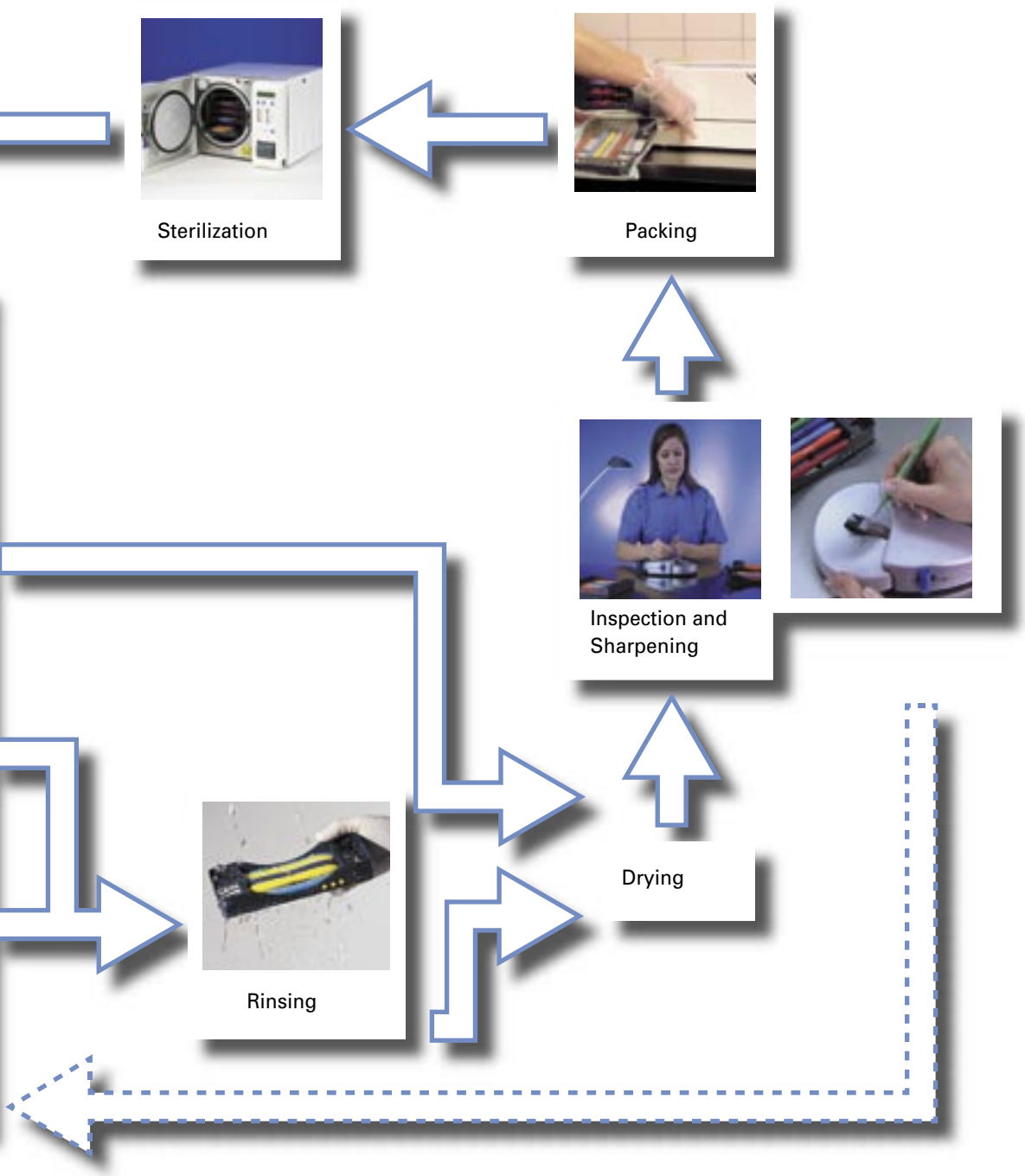
LM-ProColor
LM 4100
2 l concentrate

Maintenance cycle

1. Disinfection
Chemical disinfectant LM-ProColor. Pay close attention to the correct dosages and exposure times. If you are using a disinfecting machine, skip service cycle steps 1-5.
2. Rinsing
Rinse instruments thoroughly under warm running water.
3. Cleaning
Washing machine
Hand wash: Remove all visible dirt with warm water. Use a soft brush and detergent

Rational instrument maintenance

Important!
- regularly service the machines
- follow all user instructions
- pay special attention to correct dosage and exposure



Ultrasonic cleaner: use instrument cassettes to prevent damage

4. Rinsing

Rinse instruments thoroughly under warm running water.

5. Drying

Dry instruments before sterilization

6. Inspection and sharpening

Sharpen, service or replace instruments, if necessary

7. Packing

Pack serviced and cleaned instruments for sterilization

8. Sterilization

Autoclave: place clean, dry and properly packed instruments into the autoclave.

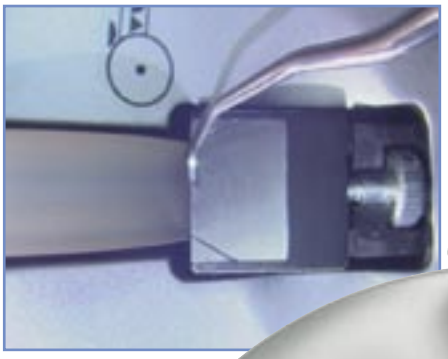
Hot-air sterilization: place clean, dry and properly packed instruments into the hot-air

sterilizer; do not fit them in too tightly; ensure that temperature is correct (max. 180°C/355°F).

Rational instrument maintenance

LM-RondoPlus sharpening machine

Instruments used in treating hard tissue blunt quickly, naturally compromising efficiency and results. Periodontal instruments should be sharp ened after every use. As sharpening by hand takes time and wears down instruments, choose the better alternative!



Easy and quick
– simple method - the blade is held in the correct sharpening position and the grinding stone rotates
– sharpening one instrument only takes a few seconds
– interactive demonstration and instruction CD, and handy quick guide

Versatile
– for both periodontal and preparation instruments
– for both right or left-handed
– the direction of rotation can be selected

Accurate and safe
– a dual-position instrument rest. The upper position is for preparation instruments and the lower for periodontal instruments
– the original blade form is preserved
– when sharpening round or arched blades, the cover is turned simultaneously resulting in the correct blade angle and an even, sharp cutting edge
– low rotational speed - the blade will not heat up nor will its temper be affected

The fine-grain ceramic stone is 400 grit. Instrument wear is reduced as much as possible, thus increasing its service life. Finer and coarser sharpening stones are available as spare parts.

LM-RondoPlus LM 8600
Package includes: sharpening machine, foot pedal, 400 grit sharpening stone, 2 LM-Fingos, 5 emery tapes, instruction CD and quick guide.

Spare Parts	
Grinding stone	
600 grit (white)	LM 8660
400 grit, coarser (grey)	LM 8640
320 grit, coarsest (black)	LM 8632
Foot pedal	LM 8630
Emery tapes, 5 pcs	LM 8550

LM-Fingo test stick

On either side of the LM-RondoPlus there are LM-Fingo test sticks. Sharpness can be tested both with Fingo mounted on the LM-RondoPlus or your finger. The Fingo is always readily available, thus saving time. The Fingo is made of an acrylic plastic and is sized to fit all users.
Always use sharp instruments. Procedures are performed smoothly and with excellent results.

LM-Fingo, 2 pcs
LM 8602

LM-Fingo, 6 pcs
LM 8606

PATENTED

Rational instrument maintenance

Interactive demonstration and instruction CD and handy quick guide included!

new!

LM-PowerHand ultrasonic device

Ergonomics and efficiency
The ergonomic and user-friendly LM-PowerHand ultrasonic device makes procedures a more pleasant experience for both the user and the patient. State-of-the-art electronics allow the amount of force applied to be optimized to the level required for the procedure in question. The control panel is located on the front of the device, thus allowing for the convenient adjustment of machine output during a procedure. Piezo technology vibrates the tip linearly and evenly, thus guaranteeing an effective and precise result.

Hygiene
LM-PowerHand has an outstanding hygiene concept. All surfaces are easy to wipe and keep clean. All knobs and buttons are autoclavable. The silicone LM-ErgoGrip is easily detached for cleaning and sterilizing.

Versatile and mobile
LM-PowerHand brings power and versatility to root canal treatment. In addition to the fixed water line model, the device also comes in single bottle-equipped – LM-Solo – or double bottle-equipped – LM-Duo – versions, which allow for the use of several fluids during a single procedure. Separate dispensers make the LM-PowerHand extremely portable – it can be easily moved from one room to another.

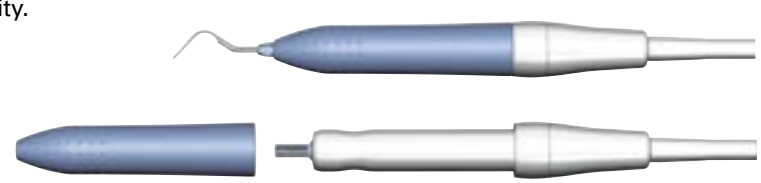
Endo function
The LM-PowerHand ultrasonic device has an endo function, which allows the power to be reduced by 50%. This makes it possible to work safely when performing high-precision procedures.

LM-PowerHand
with LM-PowerHand HP Light
LM 10090

LM-PowerHand
with LM-PowerHand HP
LM 10091

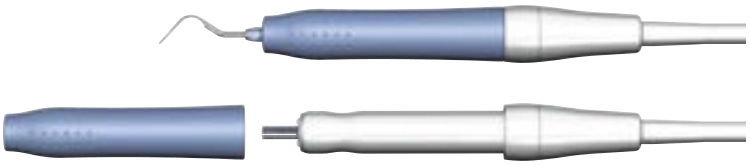
LM-PowerHand HP and LM-ErgoGrip

Ergonomic handpiece and detachable silicone grip for comfortable, non-slip grip and good tactile sensitivity.



LM-ErgoGrip
LM 10095

LM-PowerHand HP
LM 10093



LM-ErgoGrip Light
LM 10094

LM-PowerHand HP Light
LM 10092

LM-PowerHand HP is a sealed handpiece, which prevents from contamination and increases hygiene. Large diameter guarantees a relaxed grip. A smooth surface makes it easy to clean and wipe. LM-PowerHand HP is available in two different models, with and without a light. The handpieces come equipped with LM-ErgoGrip or LM-ErgoGrip Light.

LM-ErgoGrip is removable and autoclavable, thus increasing hygiene. The soft material dampens the vibration and, because the user is not touching any metal, the grip insulates against a cold feel. This prevents CTS and blood circulation problems. LM-ErgoGrip is available in two different models.

Technical data

LM-PowerHand with LM-PowerHand HP Light	LM 10090
L x W x H	205 mm x 132 mm x 55 mm
Weight	1400 g
Voltage	100 V / 115 V / 230 V
Power	Max 10 W, 24-28 kHz, automatic tuning
Water supply / pressure	0,1 – 1,0 Mpa (14.5-145 PSI)
Water consumption	10-50 ml/min
LM-PowerHand with LM-PowerHand HP	LM 10091
L x W x H	205 mm x 132 mm x 55 mm
Weight	1400 g
Voltage	100 V / 115 V / 230 V
Power	Max 10 W, 24-28 kHz, automatic tuning
Water supply / pressure	0,1 – 1,0 Mpa (14.5-145 PSI)
Water consumption	10-50 ml/min
LM-Solo Medicament dispenser	LM 10096
Bottle volume	125 ml and 250 ml
Bottle positions	1
Bottle types	Autoclavable transparent 125 ml and 250 ml Autoclavable "UV-protected" 125 ml and 250 ml
LM-Duo Medicament dispenser	LM 10097
Bottle volume	125 ml and 250 ml
Bottle positions	2
Bottle types	Autoclavable transparent 125 ml and 250 ml Autoclavable "UV-protected" 125 ml and 250 ml
Portable case	LM 10098

Product codes LM 10090 and LM 10091 contain the device with handpiece, 1 handpiece holder, 3 tips, 3 ErgoGrips, 1 of each silicone knob and button, 1 foot pedal.

Tips of the highest quality for all your needs

- Velvet polishing > less reflection
- Longer shank > better reachability
- Extremely durable blade metal > high wear resistance
- Solid, tight connection to the handpiece > enhanced working precision and cleanability

Compatible with Amdent devices.

Tips for LM-PowerHand ultrasonic device

Periodontal tips for LM-PowerHand

PE-39
LM 100139

Universal, lingual, buccal and interdental, also subgingival scaling. Recommended power setting: 10-50 %

PE-31
LM 100131

Lingual, buccal and interdental scaling, also removal of overhangs. Recommended power setting: 10-50 %

PE-32
LM 100132

Lingual and buccal supragingival scaling. Recommended power setting: 10-100%

PE-37
LM 100137

Universal, specially developed for deeper subgingival scaling, furcations supragingival fine scaling and spot removal. Recommended power setting: 10-70 %

PE-37L
LM 100137L

Universal, specially developed for deeper subgingival scaling, furcations supragingival fine scaling and spot removal. Tip bent to left for better access to furcations. Recommended power setting: 10-70 %

PE-37R
LM 100137R

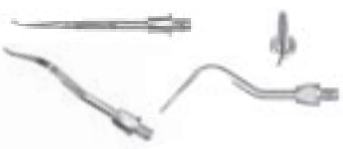
Universal, specially developed for deeper subgingival scaling, furcations supragingival fine scaling and spot removal. Tip bent to right for better access to furcations. Recommended power setting: 10-70 %

PE-38
LM 100138

Specially developed for deeper subgingival scaling and furcations. Also suitable for supragingival fine scaling and spot removal. Recommended power setting: 10-70 %

PE-38L
LM 100138L

Specially developed for deeper subgingival scaling and furcations. Also suitable for supragingival fine scaling and spot removal. Tip bent to left for better access to furcations. Recommended power setting: 10-50 %

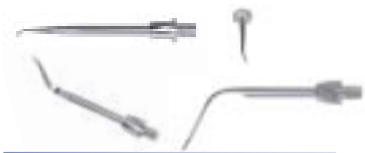


PE-38R
LM 100138R

Specially developed for deeper subgingival scaling and furcations. Also suitable for supragingival fine scaling and spot removal. Tip bent to right for better access to furcations. Recommended power setting: 10-50 %

PE-33
LM 100133

Specially developed for deeper subgingival scaling and furcations. Recommended power setting: 10-70 %



PE-33L
LM 100133L

Specially developed for deeper subgingival scaling and furcations. Tip bent to left for better access to furcations. Recommended power setting: 10-70 %

PE-33R
LM 100133R

Specially developed for deeper subgingival scaling and furcations. Tip bent to right for better access to furcations. Recommended power setting: 10-70 %

IM-1
LM 100301

For the removal of calculus from fixtures, abutments and crowns. Straight working end is covered with PEEK material to avoid damaging or discoloring of implants. Used together with FH-4 and FH-5. Recommended power setting: 10-50%

IM-2
LM 100302

Same design as with IM-1, but the working end is angulated for better access to hard-to-reach surfaces. Recommended power setting: 10-50%

FH-4
LM 100404

FH-5
LM 100405

Ultrasonic device

Endodontic tips for LM-PowerHand

Tips 1–8 are made of stainless steel.

Tips 9-11 are made of titanium. Titanium blades cut evenly and have an exceptional feel.

Tips 2–8 with diamond coating to enhance cutting efficiency

EN-1
LM 100201

For removal of crowns and bridges, also suitable for removing a variety of posts set with various cementing agents. Length 17 mm.
Recommended power setting: 10-50% with endo function and 10-25% without endo function

EN-2
LM 100202

Flat and round tip for planing attached pulp stones from the pulp chamber floor. Compared to rotating instruments, the risk of scoring the tooth is low. Length 17 mm.
Recommended power setting: 10-50% with endo function and 10-25% without endo function

EN-3
LM 100203

All-purpose, conical tip primarily for use within the pulp chamber. Also for finding hidden openings (orifices) and for removal of old fillings. Length 17 mm.
Recommended power setting: 10-50% with endo function and 10-25% without endo function

Compatible with Amdent devices.

EN-4
LM 100204

Round tip for removal of gross dentin and for moving access line angles. It can also go deeper to find hidden orifices. Length 16 mm.
Recommended power setting: 10-50% with endo function and 10-25% without endo function

EN-5
LM 100205

Used in the coronal and apical part of root canal. Also used to ditch (trephine) around posts and to eliminate brick-hard paste-type materials. Length 17 mm.
Recommended power setting: 10-30% with endo function and 10-15% without endo function

EN-6
LM 100206

For chasing canals halfway up to the roof. The water supply is placed close to the cutting surface of the tip for increased washing and cooling of the treated area. Also used to assist in the removal of broken instruments. Length 19 mm.
Recommended power setting: 10-30% with endo function and 10-15% without endo function

EN-7
LM 100207

Same shape as tip EN-5, but 2 mm longer, for a total measurement of 19 mm. Used to ditch (trephine) around posts and eliminate hard, paste-type materials. Also used for chasing calcified canals.
Recommended power setting: 10-30% with endo function and 10-15% without endo function

EN-8
LM 100208

Same shape as tip EN-5, but 7 mm longer, for a total measurement of 24 mm. Used for chasing calcified canals. Also used for ditching around broken files and aiding in the removal.
Recommended power setting: 10-30% with endo function and 10-15% without endo function
Removal of broken instruments

EN-9
LM 100209

A small diameter helps in the removal of broken instruments. Vibrations can often both loosen the broken instruments and remove it, even from the apical portion of the root. Length 20 mm. Recommended power setting: 10-30% with endo function and 10-15% without endo function.

EN-10
LM 100210

Same form as EN-9, but 4 mm longer, for a total measurement of 24 mm.
Recommended power setting: 10-30% with endo function and 10-15% without endo function

EN-11
LM 100211

Same form as EN-9, but 7 mm longer, for a total measurement of 27 mm.
Recommended power setting: 10-30% with endo function and 10-15% without endo function

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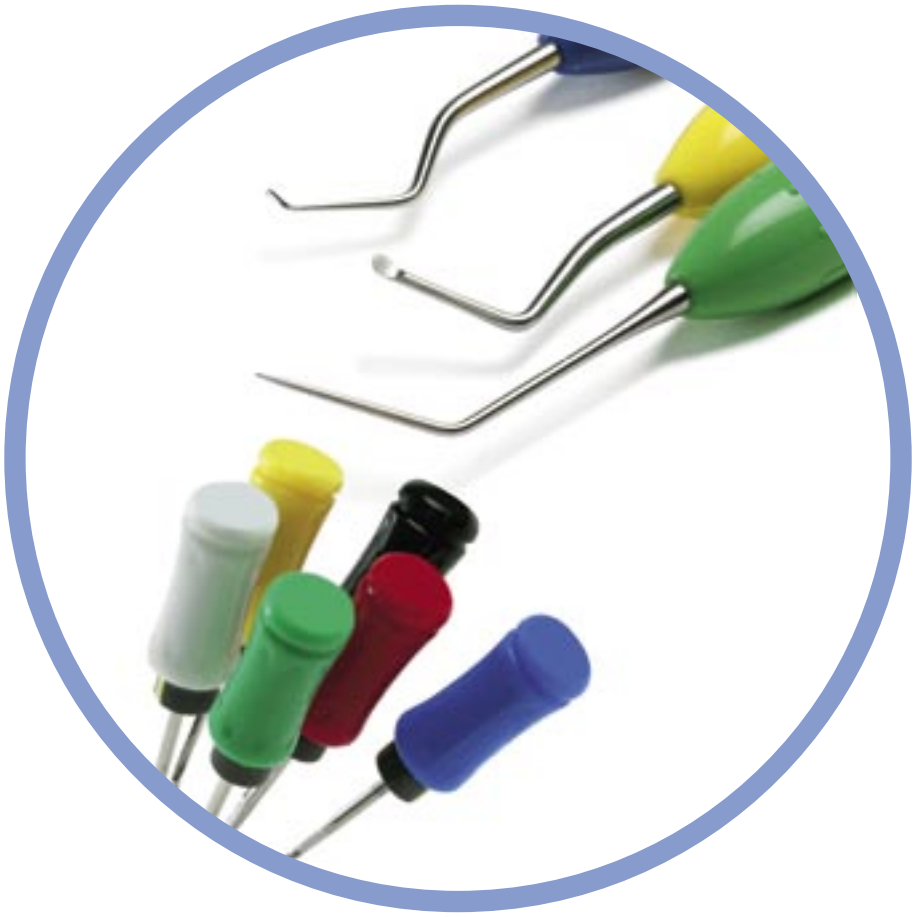

LM-Instruments Oy
PL 88 (Norrbyn rantatie 8)
FIN-21601 Parainen
Finland
Tel. +358 2 4546 400
Fax +358 2 4546 444
info@lminstruments.com
www.lminstruments.com

Contact your local dealer!

10004237/0505/en